

ABSTRACT OF THE DISCLOSURE

The disclosed embodiments relate to a system and method for refreshing a materialized view that is at least in part derived from a table. The system may be adapted to provide availability of the table and the materialized view while the materialized view is being refreshed. The system may include a refresh log that contains a plurality of entries, each of the plurality of entries corresponding to a change in the table, each of the plurality of entries comprising an epoch identifier. The system may also include a refresh manager that performs a refresh operation on the materialized view in multiple steps by (a) successively reading a first subset of the plurality of entries indicated by a specific epoch identifier from the refresh log, (b) identifying a second subset of the plurality of entries from within the first subset of the plurality of entries, the second subset of the plurality of entries falling within a primary key value boundary and (c) applying the second subset of the plurality of entries to the materialized view.

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